

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/518,297B
Source: IFw16
Date Processed by STIC: 4/14/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/518,297B

DATE: 04/14/2005

TIME: 13:57:32

Input Set : A:\54600-8130.US00-SEQLIST.TXT

Output Set: N:\CRF4\04142005\I518297B.raw

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4 <110> APPLICANT: Lim, Moon Young
5   Edwards, Cynthia A.
6   Fry, Kirk E.
7   Bruice, Thomas W.
8   Starr, Douglas B.
9   Laurance, Megan E.
10  Kwok, Yan
13 <120> TITLE OF INVENTION: DNA Binding Compound-Mediated Molecular
14  Switch System
16 <130> FILE REFERENCE: 4600-0130.30
18 <140> CURRENT APPLICATION NUMBER: US 09/518,297B
19 <141> CURRENT FILING DATE: 2000-03-03
21 <150> PRIOR APPLICATION NUMBER: US 60/122,513
22 <151> PRIOR FILING DATE: 1999-03-03
24 <150> PRIOR APPLICATION NUMBER: US 60/154,605
25 <151> PRIOR FILING DATE: 1999-09-17
27 <160> NUMBER OF SEQ ID NOS: 77
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 11
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: DNA response element
39 <400> SEQUENCE: 1
40 cgttcgcact t                               11
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 17
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: DNA response element
50 <400> SEQUENCE: 2
51 cggagtactg tcctccg                         17
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 12
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: DNA response element
W--> 61 <221> NAME/KEY: misc_feature
62 <222> LOCATION: (1)...(12)
63 <223> OTHER INFORMATION: n = A,T,C or G

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W--> 65 <400> 3
 W--> 66 taattanggg ng 12
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 551
 70 <212> TYPE: PRT
 71 <213> ORGANISM: Homo sapiens
 73 <220> FEATURE:
 74 <221> NAME/KEY: VARIANT
 75 <222> LOCATION: (0)...(0)
 76 <223> OTHER INFORMATION: transcriptional regulatory protein
 78 <400> SEQUENCE: 4
 79 Met Asp Glu Leu Phe Pro Leu Ile Phe Pro Ala Glu Pro Ala Gln Ala
 80 1 5 10 15
 81 Ser Gly Pro Tyr Val Glu Ile Ile Glu Gln Pro Lys Gln Arg Gly Met
 82 20 25 30
 83 Arg Phe Arg Tyr Lys Cys Glu Gly Arg Ser Ala Gly Ser Ile Pro Gly
 84 35 40 45
 85 Glu Arg Ser Thr Asp Thr Thr Lys Thr His Pro Thr Ile Lys Ile Asn
 86 50 55 60
 87 Gly Tyr Thr Gly Pro Gly Thr Val Arg Ile Ser Leu Val Thr Lys Asp
 88 65 70 75 80
 89 Pro Pro His Arg Pro His Pro His Glu Leu Val Gly Lys Asp Cys Arg
 90 85 90 95
 91 Asp Gly Phe Tyr Glu Ala Glu Leu Cys Pro Asp Arg Cys Ile His Ser
 92 100 105 110
 93 Phe Gln Asn Leu Gly Ile Gln Cys Val Lys Lys Arg Asp Leu Glu Gln
 94 115 120 125
 95 Ala Ile Ser Gln Arg Ile Gln Thr Asn Asn Asn Pro Phe Gln Val Pro
 96 130 135 140
 97 Ile Glu Glu Gln Arg Gly Asp Tyr Asp Leu Asn Ala Val Arg Leu Cys
 98 145 150 155 160
 99 Phe Gln Val Thr Val Arg Asp Pro Ser Gly Arg Pro Leu Arg Leu Pro
 100 165 170 175
 101 Pro Val Leu Pro His Pro Ile Phe Asp Asn Arg Ala Pro Asn Thr Ala
 102 180 185 190
 103 Glu Leu Lys Ile Cys Arg Val Asn Arg Asn Ser Gly Ser Cys Leu Gly
 104 195 200 205
 105 Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val Gln Lys Glu Asp Ile
 106 210 215 220
 107 Glu Val Tyr Phe Thr Gly Pro Gly Trp Glu Ala Arg Gly Ser Phe Ser
 108 225 230 235 240
 109 Gln Ala Asp Val His Arg Gln Val Ala Ile Val Phe Arg Thr Pro Pro
 110 245 250 255
 111 Tyr Ala Asp Pro Ser Leu Gln Ala Pro Val Arg Val Ser Met Gln Leu
 112 260 265 270
 113 Arg Arg Pro Ser Asp Arg Glu Leu Ser Glu Pro Met Glu Phe Gln Tyr
 114 275 280 285
 115 Leu Pro Asp Thr Asp Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg
 116 290 295 300

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117 Thr Tyr Glu Thr Phe Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly
 118 305 310 315 320
 119 Pro Thr Asp Pro Arg Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg
 120 325 330 335
 121 Ser Ser Ala Ser Val Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr
 122 340 345 350
 123 Ser Ser Leu Ser Thr Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe
 124 355 360 365
 125 Pro Ser Gly Gln Ile Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro
 126 370 375 380
 127 Gln Val Leu Pro Gln Ala Pro Ala Pro Ala Pro Ala Met Val
 128 385 390 395 400
 129 Ser Ala Leu Ala Gln Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly
 130 405 410 415
 131 Pro Pro Gln Ala Val Ala Pro Pro Ala Pro Lys Pro Thr Gln Ala Gly
 132 420 425 430
 133 Glu Gly Thr Leu Ser Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu
 134 435 440 445
 135 Asp Leu Gly Ala Leu Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr
 136 450 455 460
 137 Asp Leu Ala Ser Val Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln
 138 465 470 475 480
 139 Gly Ile Pro Val Ala Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr
 140 485 490 495
 141 Pro Glu Ala Ile Thr Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp
 142 500 505 510
 143 Pro Ala Pro Ala Pro Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu
 144 515 520 525
 145 Ser Gly Asp Glu Asp Phe Ser Ser Ile Ala Asp Met Asp Phe Ser Ala.
 146 530 535 540
 147 Leu Leu Ser Gln Ile Ser Ser
 148 545 550
 150 <210> SEQ ID NO: 5
 151 <211> LENGTH: 19
 152 <212> TYPE: DNA
 153 <213> ORGANISM: Artificial Sequence
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: DNA response element
 158 <400> SEQUENCE: 5
 159 tccctatcag tgatagaga 19
 161 <210> SEQ ID NO: 6
 162 <211> LENGTH: 22
 163 <212> TYPE: DNA
 164 <213> ORGANISM: Artificial Sequence
 166 <220> FEATURE:
 167 <223> OTHER INFORMATION: response element
 169 <400> SEQUENCE: 6
 170 cttAACACTC gcgagtgtta ag 22
 172 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING

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Input Set : A:\54600-8130.US00-SEQLIST.TXT
 Output Set: N:\CRF4\04142005\I518297B.raw

173 <211> LENGTH: 13
 174 <212> TYPE: DNA
 175 <213> ORGANISM: Artificial Sequence
 177 <220> FEATURE:
 178 <223> OTHER INFORMATION: response element
 W--> 180 <221> NAME/KEY: misc_feature
 181 <222> LOCATION: (3)...(3)
 182 <223> OTHER INFORMATION: n = G or T
 W--> 184 <221> misc_feature
 185 <222> LOCATION: (7)...(7)
 186 <223> OTHER INFORMATION: n = A,T,C or G
 W--> 188 <221> misc_feature
 189 <222> LOCATION: (12)...(12)
 190 <223> OTHER INFORMATION: n = A or C
 W--> 192 <400> 7
 W--> 193 rgntcantga cny 13
 195 <210> SEQ ID NO: 8
 196 <211> LENGTH: 77
 197 <212> TYPE: PRT
 198 <213> ORGANISM: Artificial Sequence
 200 <220> FEATURE:
 201 <223> OTHER INFORMATION: activator sequence
 203 <400> SEQUENCE: 8
 204 Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp Gly
 205 1 5 10 15
 206 Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp Leu
 207 20 25 30
 208 Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His
 209 35 40 45
 210 Asp Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu
 211 50 55 60
 212 Gln Met Phe Thr Asp Ala Leu Gly Ile Asp Glu Tyr Gly
 213 65 70 75
 215 <210> SEQ ID NO: 9
 216 <211> LENGTH: 11
 217 <212> TYPE: PRT
 218 <213> ORGANISM: Artificial Sequence
 220 <220> FEATURE:
 221 <223> OTHER INFORMATION: activator sequence
 W--> 223 <221> NAME/KEY: VARIANT
 224 <222> LOCATION: (1)...(11)
 225 <223> OTHER INFORMATION: tetramer
 W--> 227 <400> 9
 228 Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu
 229 1 5 10
 231 <210> SEQ ID NO: 10
 232 <211> LENGTH: 97
 233 <212> TYPE: PRT
 234 <213> ORGANISM: Artificial Sequence

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Input Set : A:\54600-8130.US00-SEQLIST.TXT
Output Set: N:\CRF4\04142005\I518297B.raw

236 <220> FEATURE:
 237 <223> OTHER INFORMATION: repressor sequence
 239 <400> SEQUENCE: 10
 240 Met Asp Ala Lys Ser Leu Thr Ala Trp Ser Arg Thr Leu Val Thr Phe
 241 1 5 10 15
 242 Lys Asp Val Phe Val Asp Phe Thr Arg Glu Glu Trp Lys Leu Leu Asp
 243 20 25 30
 244 Thr Ala Gln Gln Ile Val Tyr Arg Asn Val Met Leu Glu Asn Tyr Lys
 245 35 40 45
 246 Asn Leu Val Ser Leu Gly Tyr Gln Leu Thr Lys Pro Asp Val Ile Leu
 247 50 55 60
 248 Arg Leu Glu Lys Gly Glu Glu Pro Trp Leu Val Glu Arg Glu Ile His
 249 65 70 75 80
 250 Gln Glu Thr His Pro Asp Ser Glu Thr Ala Phe Glu Ile Lys Ser Ser
 251 85 90 95
 252 Val
 255 <210> SEQ ID NO: 11
 256 <211> LENGTH: 36
 257 <212> TYPE: PRT
 258 <213> ORGANISM: Artificial Sequence
 260 <220> FEATURE:
 261 <223> OTHER INFORMATION: repressor sequence
 263 <400> SEQUENCE: 11
 264 Met Ala Ala Ala Val Arg Met Asn Ile Gln Met Leu Leu Glu Ala Ala
 265 1 5 10 15
 266 Asp Tyr Leu Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser
 267 20 25 30
 268 Met Leu Pro Tyr
 269 35
 271 <210> SEQ ID NO: 12
 272 <211> LENGTH: 116
 273 <212> TYPE: DNA
 274 <213> ORGANISM: Escherichia coli
 276 <220> FEATURE:
 277 <221> NAME/KEY: misc_feature
 278 <222> LOCATION: (0)...(0)
 279 <223> OTHER INFORMATION: partial promoter sequence
 281 <400> SEQUENCE: 12
 282 cgcggtcaga aaatttatttt aaatttcctc ttgtcaggcc ggaataactc cctataatgc 60
 283 gccaccactg acacggaaaca acggcaaaca cgccgccggg tcagcgggt tctcct 116
 285 <210> SEQ ID NO: 13
 286 <211> LENGTH: 22
 287 <212> TYPE: DNA
 288 <213> ORGANISM: Escherichia coli
 290 <220> FEATURE:
 291 <221> NAME/KEY: misc_feature
 292 <222> LOCATION: (0)...(0)
 293 <223> OTHER INFORMATION: partial promoter sequence
 295 <400> SEQUENCE: 13

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/14/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 7,11
Seq#:7; N Pos. 3,12

VERIFICATION SUMMARY

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Input Set : A:\54600-8130.US00-SEQLIST.TXT
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L:61 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:180 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:184 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:188 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:192 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:223 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9